

## Claims

1. A method for automatically identifying a plurality of golf clubs and golf balls,  
comprising:

5 storing image reference information for each of the plurality of golf clubs and golf  
balls;

acquiring an image of at least one of said balls and clubs during a swing; and

automatically identifying at least one of said club or ball based on a comparison to  
said image reference information.

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2. The method according to claim 1, wherein said automatically identifying takes about six  
seconds or less.

3. The method according to claim 1, wherein said automatically identifying takes about one  
15 second or less.

4. The method according to claim 1, wherein said image reference information is based on a  
plurality of markers, wherein said markers comprise visible ink.

20 5. The method according to claim 4, wherein said markers comprise ink responsive to  
ultraviolet light.

6. The method according to claim 4, wherein said visible ink markers comprise limited  
spectrum markers responsive to one of colored light and fluorescent light.

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7. The method according to claim 1, wherein said image reference information is based on  
inherent features of said balls and clubs.

8. The method according to claim 1, wherein said automatically identifying is based on  
30 Eigen values.

9. A method for automatically identifying a plurality of golf clubs and golf balls, comprising:

storing image reference information for each of the plurality of golf clubs and golf balls;

5 acquiring an image of at least one of said balls and clubs during a swing; and  
automatically identifying at least one of said club or ball based on a comparison to said image reference information in about six seconds or less.

10. The method according to claim 9, wherein said image reference information is based on a  
10 plurality of markers, wherein said markers comprise visible ink.

11. The method according to claim 10, wherein said markers comprise ink responsive to ultraviolet light.

15 12. The method according to claim 10, wherein said visible ink markers comprise limited spectrum markers responsive to one of colored light and fluorescent light.

13. The method according to claim 9, wherein said image reference information is based on inherent features of said balls and clubs.

20 14. The method according to claim 9, wherein said automatically identifying is based on Eigen values.

15. A system for automatically identifying a plurality of objects, comprising:

25 at least one camera system; and

a computational device capable of identifying an acquired image from a library of stored reference information.

16. The system according to claim 15, wherein said identifying is based on inherent factors  
30 of the object.

17. The system according to claim 15, wherein said identifying is based on a plurality of UV markers.

18. The system according to claim 15, wherein said identifying is based on a plurality of  
5 visible markers.

19. The system according to claim 15, wherein said library of stored reference information comprises about 200 or more objects.